

What is claimed is:

1. A projection type display apparatus comprising:
  - a spatial light modulator for optically modulating an
  - 5 input image to obtain an optical image to be projected;
  - a projection lens;
  - an optical member with the spatial light modulator fixed,
  - for guiding the optical image to an incident side of the
  - projection lens;
  - 10 a first supporting member having a first thermal
  - expansion coefficient; and
  - a second supporting member having a second thermal
  - expansion coefficient larger than the first thermal expansion
  - coefficient,
  - 15 wherein the optical member is fixed on a first end part
  - of the first supporting member in a part not to block the optical
  - image emitted from the optical member to the incident side
  - of the projection lens, and the longitudinal direction of the
  - first supporting member with the optical member fixed is
  - 20 provided parallel to the optical axis of the projection lens,
  - a first end part of the second supporting member is fixed
  - to a second end part of the first supporting member, the second
  - end part being disposed at a position facing the first end
  - part,
  - 25 a second end part which is an end part opposite to the
  - first end part of the second supporting member is fixed to
  - an incident side end part of the projection lens, and an optical
  - axis of the projection lens and an axis of a light beam emitted
  - from the optical member are parallel,
  - 30 the second end part of the second supporting member is
  - disposed on an optical member side with respect to the second
  - end part of the first supporting member, and
  - a thermal expansion amount of the first supporting member
  - from the first end part to the second end part thereof offsets

a thermal expansion amount of the second supporting member from the first end part to the second end part thereof.

2. The projection type display apparatus according to  
5 claim 1, wherein the lengths L1 and L2 are set to satisfy  $L1 \times k1 = L2 \times k2$ ,

where L1 is a length from a projection lens side end  
face of the optical member which emits the optical image to  
a position at which the second end part of the first supporting  
10 member is attached to the first end part of the second supporting  
member; L2 is a length from a position at which the second  
end part of the first supporting member is attached to the  
first end part of the second supporting member, to a position  
at which the second end part of the second supporting member  
15 is fixed to the incident side end part of the projection lens;  
k1 is the first thermal expansion coefficient; and k2 is the  
second thermal expansion coefficient.